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**From:** Detlef Knappe [knappe@ncsu.edu]  
**Sent:** 10/3/2016 6:25:12 PM  
**To:** Strynar, Mark [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5a9910d5b38e471497bd875fd329a20a-Strynar, Mark]  
**Subject:** Re: Hillary and FIU samples

Thank you for the updates, Mark. I can look at the data later this afternoon. Any word on ES&T letters submission?

Best,  
Detlef

On Oct 3, 2016 11:22 AM, "Strynar, Mark" <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)> wrote:

Detlef,

Hillary came in on Friday and was again here yesterday. I was concerned with her being here alone so I asked her to text me which she did.

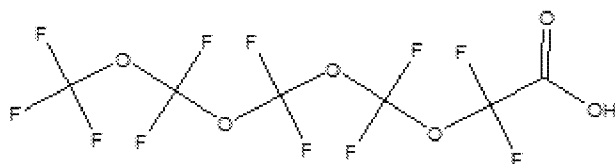
Concerning the samples from FIU. I ran them on Friday and got the results today. Find attached the data. However here are some caveats to this data.

1. PFOS as I thought in my preliminary check did not have enough sensitivity using the direct injection method.
2. PFOA had reasonable sensitivity, however not as high as I thought it may have.
3. C4 and C4 in the spiked samples had good sensitivity.
4. The 5 compounds found in the un-spiked water were M/Z 178.97, 245.053, 311.082, GenX, 377.088. I am attaching a chemsketch drawing of these compounds
5. As we had no IS for this it is hard to decipher response on the lower responding compounds. In some instances I see upward trends or ambiguous trends (up and down).

All of these results are based on a straight preparation of 9:1 sample:methanol and direct injection on our Acquity UPLC MS/MS system.

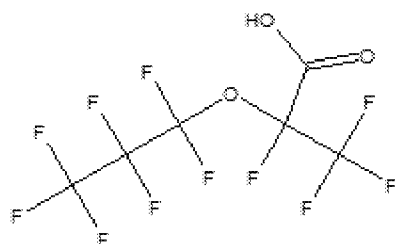
Give this a look and let's decide what to do next. I summarized the data on the second tab called

Mark



Molecular Formula =  $C_8HF_{11}O_4$   
 Monoisotopic Mass = 377.959748 Da  
 [M-H]<sup>-</sup> = 376.952472 Da

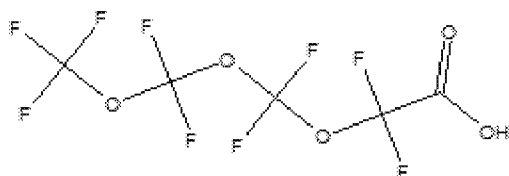
39492-90-5



Molecular Formula:  $C_8HF_{11}O_3$   
 Monoisotopic Mass: 329.975004 Da  
 [M-H]<sup>-</sup>: 328.967728 Da

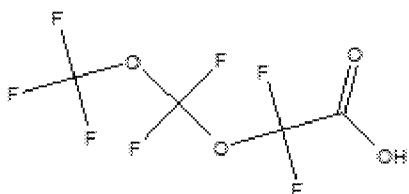
GenX

13252-13-6



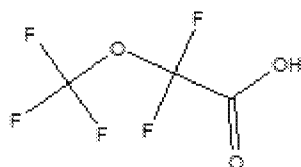
Molecular Formula =  $C_5HF_9O_3$   
 Monoisotopic Mass = 311.968027 Da  
 [M-H]<sup>-</sup> = 310.96075 Da

39492-89-2



Molecular Formula =  $C_4HF_7O_4$   
 Monoisotopic Mass = 245.976306 Da  
 [M-H]<sup>-</sup> = 244.969029 Da

39492-88-1



Molecular Formula =  $C_3HF_5O_3$   
 Monoisotopic Mass = 179.984585 Da  
 [M-H]<sup>-</sup> = 178.977308 Da

-----Original Message-----

From: Detlef Knappe [mailto:[knappe@ncsu.edu](mailto:knappe@ncsu.edu)]

Sent: Wednesday, September 28, 2016 10:32 AM  
To: Strynar, Mark <Strynar.Mark@epa.gov>  
Subject: Re: Greensboro

Sounds good, Mark. Thank you!

In any case, Hillary will not be able to handle the FIU samples Johnsie brought in today.

If Hillary is not able to work on the GB samples on Friday and/or Saturday, I'd say we can not wait longer with the GB samples and have to proceed without her. If you need an extra hand next week, let me know.

Either Zack or Amie in my group could help.

Detlef

On 9/28/16 10:27 AM, Strynar, Mark wrote:

> I am not sure what to think. Seems she wants to get in here and do this with us. If she cannot we can move forward on our end.

>

> Mark

>

>

> -----Original Message-----

> From: Detlef Knappe [mailto:knappe@ncsu.edu]

> Sent: Wednesday, September 28, 2016 7:54 AM

> To: Strynar, Mark <Strynar.Mark@epa.gov>

> Subject: Greensboro

>

> Let me know your thoughts on Hillary's email. I'd say there is at best a 50% chance that she will come in on Friday and/or Saturday.

>

>

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Detlef Knappe

Professor

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